

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+spt+act+snls3+bao+h0

$10^9 \Delta_{\mathcal{R}}^2$	$2.416 \pm 0.074$	$H_0$	$73.0 \pm 1.9$ km/s/Mpc
$N_{\text{eff}}$	$3.83 \pm 0.40$	$A_{\text{clustered}}$	$5.0^{+3.8}_{-5.0}$
$A_{\text{Poisson}}^{\text{ACT}}$	$14.2 \pm 2.6$	$A_{\text{Poisson}}^{\text{SPT}}$	$22.7 \pm 4.3$
$\ell(\ell + 1)C_{220}/(2\pi)$	$5748^{+31}_{-32} \mu\text{K}^2$	$d_A(z_{\text{eq}})$	$13513^{+325}_{-329}$ Mpc
$d_A(z_*)$	$13356^{+321}_{-325}$ Mpc	$D_v(z = 0.57)/r_s(z_d)$	$13.35 \pm 0.11$
	$0.0000000006148^{+0.0000000000097}_{-0.0000000000093}$	$\eta$	$(6.148^{+0.097}_{-0.093}) \times 10^{-10}$
$k_{\text{eq}}$	$0.01050^{+0.00029}_{-0.00028}$	$\ell_{\text{eq}}$	$140.1 \pm 1.4$
$\ell_*$	$302.75^{+0.49}_{-0.50}$	$n_b$	$(2.525^{+0.040}_{-0.038}) \times 10^{-7} \text{ cm}^{-3}$
$n_s$	$0.976^{+0.010}_{-0.011}$	$\Omega_b$	$0.0422 \pm 0.0020$
$\Omega_b h^2$	$0.02248^{+0.00036}_{-0.00034}$	$\Omega_c$	$0.2413 \pm 0.0087$
$\Omega_c h^2$	$0.1288^{+0.0074}_{-0.0072}$	$\Omega_\Lambda$	$0.7165 \pm 0.0093$
$\Omega_m$	$0.2836 \pm 0.0093$	$\Omega_m h^2$	$0.1513^{+0.0075}_{-0.0073}$
$r_s(z_d)$	$144.8^{+3.6}_{-3.7}$ Mpc	$r_s(z_d)/D_v(z = 0.106)$	$0.3433 \pm 0.0042$
$r_s(z_d)/D_v(z = 0.2)$	$0.1875^{+0.0021}_{-0.0022}$	$r_s(z_d)/D_v(z = 0.35)$	$0.1127 \pm 0.0011$
$r_s(z_d)/D_v(z = 0.44)$	$0.09256^{+0.00086}_{-0.00087}$	$r_s(z_d)/D_v(z = 0.54)$	$0.07820 \pm 0.00067$
$r_s(z_d)/D_v(z = 0.57)$	$0.07490^{+0.00062}_{-0.00063}$	$r_s(z_d)/D_v(z = 0.6)$	$0.07194^{+0.00058}_{-0.00059}$
$r_s(z_d)/D_v(z = 0.73)$	$0.06202^{+0.00045}_{-0.00046}$	$r_s(z_*)$	$138.6^{+3.4}_{-3.5}$
$R$	$1.7311 \pm 0.0057$	$\sigma_8$	$0.855 \pm 0.023$
$\alpha_{\text{SNLS}}$	$1.43 \pm 0.11$	$\beta_{\text{SNLS}}$	$3.26 \pm 0.11$
$A_{\text{SZ}}$	$0.49^{+0.38}_{-0.49}$	$t_0$	$13.11 \pm 0.32$ Gyr
$\tau$	$0.081 \pm 0.012$	$\theta_*$	$0.010377 \pm 0.000017$
$\theta_*$	$0.59455^{+0.00097}_{-0.00096} \text{ }^\circ$	$\tau_{\text{rec}}$	$269.7^{+6.5}_{-6.6}$
$t_{\text{reion}}$	$445 \pm 67$ Myr	$t_*$	$357026^{+8793}_{-8939}$ yr
$z_d$	$1021.6 \pm 1.1$	$z_{\text{eq}}$	$3274 \pm 46$
$z_{\text{rec}}$	$1089.61^{+0.76}_{-0.74}$	$z_{\text{reion}}$	$10.3 \pm 1.1$
$z_*$	$1092.44^{+0.63}_{-0.64}$		